

CSPA Exhibit 4

**Dan Bowman Odenweller
Senior Fisheries Biologist**

October 6, 2005

Personal: Born in Caracas, Venezuela. U.S. Citizen (with a dual United States and Venezuelan citizenship). Fluent in English and Spanish.

Married, two daughters aged 29 and 24.

Education: B.S. Zoology, 1969, California State University at Long Beach

M.A. Biology, 1971, California State University at Long Beach - Thesis title: Life History of the Shiner Perch, Cymatogaster aggregata, in Anaheim Bay, California.

Employment: I have been continuously employed by the California Department of Fish and Game from May, 1971, until my retirement on November 30, 2001. Job experience includes:

- May 1971 to July 1974 – Junior Aquatic Biologist and Assistant Marine Biologist in the Marine Resources Region, in Long Beach, California.
- July 1974 to April 1978 - Project Leader of the Bay-Delta Project - Fish Facilities Study, one of the elements of the Interagency Ecological Study Program for the Sacramento-San Joaquin Estuary. Conducted biological studies associated with the development of design criteria for the "Peripheral Canal" fish screens.
- May 1978 to June 1991 - Research Supervisor for the Bay-Delta Project - Fish Facilities Program, one of the elements of the Interagency Ecological Study Program for the Sacramento-San Joaquin Estuary, and for the Fish Salvage Operations program associated with the CVP and SWP fish screens in the south Delta.

Served as Chairman of the Fish Facilities Technical Committee of the Interagency Ecological Study Program for the Sacramento-San Joaquin Estuary. Also served as the lead

technical staff person for the P.G.&E., "Four Pumps," and the CVP mitigation agreements. In this capacity presented testimony to the State Water Resources Control Board on the effects of direct losses at the CVP and SWP fish protective facilities in the south Delta.

Supervised the Contract Services Section and the Suisun Marsh Project during some of this period, which included serving as lead technical staff person for the Suisun Marsh preservation agreements. Lead the fish and wildlife study teams working on the Los Banos Grandes, Cottonwood, North and South Delta Facility projects. I also lead the team conducting the "Upper Sacramento River IFIM" project to a successful completion.

- July 1991 to September 1998 - Statewide Fish Screen and Fish Passage Coordinator for the Inland Fisheries Division. Responsible for the coordination of efforts to protect inland fishery resources throughout the state. This includes the installation of fish screens and fish passage facilities.

Supervise a Sport Fish Restoration Act project staff of three, charged with completing an inventory of water diversions and fish passage barriers throughout the State. Initial emphasis has been on the Central Valley.

Served as chair the Central Valley Fish Passage Facilities Coordination and Communication Technical Team, created in 1998 as a result of recommendations for better interagency and interdisciplinary efforts in this area.

- October 1998 to retirement - Resumed supervision of the Fish Facilities Unit, and a staff of five, of the Central Valley Bay-Delta Branch, in addition to the duties of Statewide Fish Screen and Fish Passage Coordinator described above (including programmatic responsibility for the Sport Fish Restoration Act project). This change was the result of a general reorganization of the Department of Fish and Game.

Continued serving as chair of the Central Valley Fish Passage Facilities Coordination and Communication Technical Team.

- Retired from State service on November 30, 2001.
- December 2001 to November 2004: Accepted a limited term appointment with the National Marine Fisheries Service, NOAA, Department of Commerce, working as a Fishery

Biologist – Management (Grade ZP-3). Worked in the Habitat Conservation Division, out of the Sacramento Area office. Employment ended when funding for the position ran out. Focus was on CalFed, and South Delta Fish Facilities, as part of the Southwest Region, Habitat Conservation Division, Fisheries Engineering Team.

- Currently volunteering with the California Sportfishing Protection Alliance, and with Deltakeeper (assisting with the SWRCB's Triennial Review - D-1641 Workshops, on the Delta).

Special Qualifications:

- Completed the State of California "Certificate in Management" program and the Department of Fish and Game Supervisory and Leadership Academies, as well as numerous other supervisory and management courses.
- Department of Fish and Game Certified Diver, 130 foot depth certification with training in surface air supply diving, altitude diving, nitrox diving, drysuit diving, administration of oxygen, diver rescue, swiftwater rescue, and hyperbaric chamber patient care and transport. Served as Chair of the Diving Safety Board for the Department of Fish and Game at retirement.
- Certified by the U.S. Fish and Wildlife Service in the user of the Instream Flow Incremental Methodology (IFIM) and the Habitat Evaluation Procedure (HEP).
- Completed the American Fisheries Society "Expert Witness" seminar and have presented testimony as an expert witness in court and before the state legislature, state boards and commissions.
- Hold a private pilot license, single engine land, with high performance aircraft (235HP) endorsement.
- Served as an Information Systems Coordinator for the Inland Fisheries Division of the Department of Fish and Game working in the MS-DOS and Windows personal computer environment until a reorganization of the Department of Fish and Game eliminated the need for the position in 1999. Familiar with Wordperfect, Lotus (1-2-3 and Freelance),

DBase, Procomm, Norton Utilities, Fastback, ArcView, and numerous other software programs. Also serve as the Local Area Network Administrator for the Inland Fisheries Division. Some programming experience in Fortran, Cobol and Basic languages as well as DBase and Lotus 1-2-3 programs.

Publications and Presentations:

Odenweller, Dan B. 1971. A Survey of the Marine Environment near the Orange County Sanitation District's Ocean Outfall. Calif. Fish and Game, Marine Resources Region, MRR Reference No. 71-9, November 1971. 18pp.

Odenweller, Dan B. 1972. Marine Inshore Ecological Methods. Presented at the 1972 Annual Meeting for the Western Section of the Wildlife Society and the California-Nevada Chapter of the American Fisheries Society. San Luis Obispo, CA, January 28-29, 1972. CAL-NEVA WILDLIFE 1972. Pp 14-16.

Odenweller, Dan B. 1972. A New Range Record for the Umbrella Crab, *Cryptolithodes sitchensis* Brandt. Calif. Fish and Game, 58(3):240-243.

Odenweller, Dan B. 1972. A Survey of the Marine Environment near the City of Watsonville Ocean Outfall. Calif. Fish and Game, Marine Resources Region, Administrative Report 72-6, August 1972. 13pp.

Odenweller, Dan B. 1973. A Survey of the Marine Environment near the City of Goleta Ocean Outfall. Calif. Fish and Game, Marine Resources Region, Administrative Report 73-1, January 1973. 14pp.

Odenweller, Dan B. 1975. Aspects of the Biology of the Shiner Perch, *Cymatogaster aggregata* Gibbons, in a Southern California Estuary. Presented at the 1975 Annual Meeting for the Western Section of the Wildlife Society and the California-Nevada Chapter of the American Fisheries Society. Sacramento, CA, January 23-25, 1975. CAL-NEVA WILDLIFE 1975. Pp 93-98.

Odenweller, Dan B. 1975. An Unusual Aggregation of Bat Rays, *Myliobatis californica* Gill. Calif. Fish and Game, (61)3:159.

Odenweller, Dan B. 1975. The Life History of the Shiner Surfperch, *Cymatogaster aggregata* Gibbons, in Anaheim Bay California. Pages 107-116 in: The Marine Resources of Anaheim Bay, edited by E. David Lane and Cliff W. Hill. California Department of Fish and Game. Fish Bulletin 165. 195pp.

Fisher, Frank W., Dan B. Odenweller, and John E. Skinner. 1976. Recent Progress in Fish Facility Research for California Water Diversion Projects. Pages 381-403 in: Third National Workshop on Entrainment and Impingement, Section

316b Research and Compliance, edited by Loren D. Jensen. Ecological Analysts, Inc. 425 pp.

Odenweller, Dan B., and John M. Duffy. 1977. A Survey of the Marine Environment Offshore From Palos Verdes Point, Los Angeles County, California. California Department of Fish and Game. Marine Resources Technical Report No. 34. 87 pp.

Odenweller, Dan B., and Randall Brown. 1981. A fish protection facility for the proposed Peripheral Canal. Talk to various groups on the results of studies regarding fish screens for the Peripheral Canal.

Odenweller, Dan. 1994. Screens Protect Fish from Diversions. Outdoor California, September-October 1994, pages 24-26.

Swanson, Christina, Leslie T. Kanemoto, Ayako Kawabata, Teresa McColl, Paciencia S. Young, Joseph J. Cech, Jr., and Dan B. Odenweller. 2005. Estimating Entrainment Losses of Fishes Using Multiple Datasets. Abstracts of the Papers and Posters of the Symposia and 39th Annual Meeting of the California-Nevada Chapter of the American Fisheries Society; Sacramento, California. March 17-19, 2005